ANNEX II + III: TECHNICAL SPECIFICATIONS + TECHNICAL OFFER

Contract title: Supply of IT Devices, Telephones, Radio Communication p 1/15

Publication reference : EC/EUBAM/CIS

Column 1-2 should be completed by the Contracting Authority Column 3-4 should be completed by the tenderer Column 5 is reserved for the evaluation committee

Annex III - the Contractor's technical offer

The tenderers are requested to complete the template on the next pages:

- Column 2 is completed by the Contracting Authority shows the required specifications (not to be modified by the tenderer),
- Column 3 is to be filled in by the tenderer and must detail what is offered (for example the words "compliant" or "yes" are not sufficient)
- Column 4 allows the tenderer to make comments on its proposed supply and to make eventual references to the documentation

The eventual documentation supplied should clearly indicate (highlight, mark) the models offered and the options included, if any, so that the evaluators can see the exact configuration. Offers that do not permit to identify precisely the models and the specifications may be rejected by the evaluation committee.

The offer must be clear enough to allow the evaluators to make an easy comparison between the requested specifications and the offered specifications.

Please urgently regard the footnotes to this document!

LOT 1: IT DEVICES¹

1.		2.	3.	4.	5.
Item Number	Quantity	y/Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
1	5 Computer Desktops				
	· · ·	Mini Tower minimum 2GHz dual-core, 2MB L2 cache Flat Panel Monitor 19" minimum 2 GB RAM RJ45, AC Power, min 4 x USB 2.0 160 GB 220V AC (110V AC option) USB Optical 2 button scroll USB QWERTY as standard, other options to be available on request 16 x DVD +/- RW Built-in soundcard 128MB memory, fully DirectX 9 compliant Built-in Gigabit Ethernet (RJ45) ons: preferably with no OS included; Complete ows XP Professional (in English)			

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After Sales Service: To be noted that After Sales service shall be available on a 24/7 Basis. The Contractor certifies that the technical service for poor quality of supplies is provided for 7 days. Irreparable or perished items within the duration (7 days) will be replaced in 15 working days.

1.	2.	3.	4.	5.
Item Number	Quantity/Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	 <i>Media:</i> All installation media to be provided <i>Documentation:</i> English (optional: additional languages) <i>Software language:</i> English (optional: additional languages) Model supplied must be from a recognized manufacturer and not assembled from supplied components 			
	These are minimum specifications			
	Warranty: 24 months return to vendor			
2	68 Computer Laptops			
	Model supplied must be from a recognized manufacturer and not assembled from supplied components			
	These are minimum specifications			
	 Weight: maximum weight 3 kg CPU: minimum 1.6 GHz dual-core, 2MB L2 cache HDD: minimum 160GB RAM: minimum 2 GB 			
	 Optical drive: internal DVD-/+R/RW Card Reader: internal or external option 			
	 Webcam: internal option, at least 1.3 MPixel Monitor: 17" WXGA Modem: internal 56Kbps (RJ11) 			
	 NIC: built-in Gigabit Ethernet (RJ45) Graphics: DirectX 9 compliant 			

1.	2.	3.	4.	5.
Item Number	Quantity/Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	 Wireless: min: support for 802.11a/b/g WiFi Integrated UMTS, also supported GPRS and EDGE Sound: Built-in soundcard Mouse: built-in touchpad mouse Ports: 1 x serial, 4 x USB 2.0, 1 x IEEE 1394, 1 x PCMCIA PC Card slot, 1 x VGA, 1 x TV-out, 1 x mini-jack microphone, 1 x audio out mini-jack Keyboard: QWERTY Built-in Bluetooth capability Installed software options: preferably with no OS included; Complete set of drivers for Windows XP Professional (in English) Compatibility: Fully compatible with Windows XP Professional SP2 Accessories: Security cable, carrying case, external power supply (120-220V / 50-60 Hz), international adaptors, optical wheel mouse Media: All installation media to be provided Documentation: English (optional: additional languages) Software Language: English, other languages as option Warranty: 24 months return to vendor 			
3	 19 Additional Screens for Laptop Flat Panel LCD Monitor 17" minimum, 19" preferred capable of 1280x1024 resolution at least 300 cd/m2 brightness <10ms latency DVI/VGA connection "No dead" or stuck pixels warranty. 			

1.	2.	3.	4.	5.
Item Number	Quantity/Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
4	108 Memory Stick			
	 Size: approx 2 Gbytes (using FAT32 file system) minimum; Connectivity: standard USB 2.0; Software: no preinstalled "smart drive" software (like U3 Launchpad); Warranty: 12 months return to vendor 			
5	10 Network equipment : Fast Ethernet Switch 8 PORTS			
	 These are minimum specifications: 8 x 10/100 Mbit/s Ethernet LAN ports (100BASE-TX RJ-45) with automatic speed detection; Form factor: stand alone; Automatic MDI/MDIX; Full/half duplex auto-negotiation and flow control; Switching features: Store-and-forward, full-/half-duplex auto-negotiation; Power supply: 220v, 110v as option desirable; Warranty: 12 months return to vendor 			
6	4 Network equipment : Fast Ethernet Switch 24 PORTS			
	 These are minimum specifications: 24 x 10/100 Mbit/s Ethernet LAN ports (100BASE-TX RJ-45) with automatic speed detection + 2 x 1000 Mbit/s Ethernet LAN ports (1000BASE-TX RJ-45) with automatic speed detection; Form factor: stand alone; Automatic MDI/MDIX; 			

1.	2.	3.	4.	5.
Item Number	Quantity/Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	 Full/half duplex auto-negotiation and flow control; Switching features: Store-and-forward, full-/half-duplex auto-negotiation; 12 Gbps non-blocking switching capacity; VLAN support; Security: IEEE 802.1X, Access lists based on MAC/IP address, VLAN. Web interface for configuration and monitoring; Port mirroring; SNMP network monitoring protocol; Additional protocols: Link aggregation, Spanning Tree. Power supply: 220v, 110v as option desirable; 			
	Warranty: 12 months return to vendor			
7	Network equipment: Cabling – CAT6e • 400m of CAT6e cable; • 200 x RJ45 connectors; • RJ45 crimping tool;			

1.	2.	3.	4.	5.
Item Number	Quantity/Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
8	 1 Network equipment: Firewall² Flash Memory: 256 Mbytes; RAM Memory: 256 Mbytes; Power supply: 220v, redundant power supply option; Media: All installation media to be provided; Documentation: English (optional: additional languages); Software Language: English; Licences: All required licenses for VPN, 3DES and AES encryption, 50 VPN peers, 20 VLANs; Warranty: 24 months return to vendor 			
9	3 Network equipment: Wireless Access Points ³			

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The Firewall in use by EUBAM Rafah, Cisco ASA 5510, has to work together with a backup unit:

- In case of unrecoverable fault of the network device mentioned above, having a backup unit will permit the Mission not to interrupt all the communication means involved (Internet access, E-Mail subsystem, encrypted data communication with Brussels);
- In a full redeployment situation, more network traffic would make the whole network infrastructure highly-loaded and more prone to unexpected faults; the firewall actually in use represents a single point-of-failure for the whole network infrastructure.

² Due to Network maintenance and Administration constraints: in order to fulfill the requirement of ensuring network and information security, data communication capacity and efficient network management, EUBAM Rafah needs a backup Firewall unit fully compatible with the one already in use, capable to be activated in the shortest possible time.

1.	2.	3.	4.	5.
Item Number	Quantity/Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	 Ports: 1 auto-sensing 10/100 port; Media Type: Auto-MDIX; Duplex: half or full; 1 RS-232C DB-9 console port; Mounting: Including wall-mounting bracket; Power supply: power adapter 220V 50/60 Hz; Features: Hardware reset button, external antenna connectors (RP-SMA), antenna diversity support; Standards and protocols: HTTP and telnet management, VLAN support, SNMP, RADIUS, firmware update, IEEE 802.1X, Wi-Fi Protected Access 2 (WPA2) encryption with support for AES/TKIP. Supporting IEEE 802.11a/b/g networks. Documentation: English (optional: additional languages); Software Language: English; Warranty: 24 months return to vendor 			
10	1 Office equipment: Multifunctional Printer			
	 These are minimum specifications: Printing, scanning, and copying: up to 24 ppm (letter), color and monochrome, single- or double-sided, A3 compatible Memory: 512 MB; 			

³ Due to Network maintenance and Administration constraints: in order to fulfil the requirements of network efficiency, data communication capacity and efficient network management, EUBAM Rafah needs Wireless Access Point units fully compatible with the ones already in use. The Wireless Access Points in use by EUBAM Rafah for the moment are HP ProCurve 420.

1.	2.	3.	4.	5.
Item Number	Quantity/Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	 Storage: Hard disk; Analog fax: Up to 33.6 kbps Digital sending: Scan to email recipients, PDF, JPEG, max. speed up to 18.9 ppm; First page out max. 20 seconds Resolution: 600 by 600 dpi (printing and scanning) 300 by 300 dpi, 600 by 300 maximum (copying) 300 by 300 dpi (fax) Connectivity: Bi-directional IEEE 1284-compliant parallel interface, Jetdirect 620n Fast Ethernet internal print server, FIH (foreign interface harness) connector, JetLink connector, USB, RJ11 connector (to the external fax line), 802.11b/g wireless through USB port (optional), Paper feeder: A3/A4 / US letter A3/A4 input tray (2000 sheets); Media: All installation media to be provided Documentation and Software: English (optional: additional languages) Power supply: 220v 50/60 Hz; Additional features: automatic page size substitution, remote printing Consumables: 2 complete sets of cartridges and other consumables to be supplied with printer 			
	Warranty: 24 months return to vendor			
11	20 Office equipment: UPS for Desktop These are minimum specifications			

1.	2.	3.	4.	5.
Item Number	Quantity/Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	 Form factor: stand alone Output power capacity: 650VA Nominal input voltage: 220V (110V option) Output voltage:: 220V, (110 volt option) Output voltage distortion: Less than 3% Output frequency (sync to mains): 50/60Hz Waveform type: Sine wave Bypass: Internal bypass Nominal input voltage: 220V (110V option) Input frequency: 50/60Hz +/- 5Hz (auto sensing) Battery type: Maintenance-free sealed lead-acid battery with suspended electrolyte (leak-proof) Must include all necessary cables for connecting equipment to the UPS Warranty: 12 months return to vendor. 			
12	 Data Server equipment: Spare Hard Disks 3 x 146 GB 10K RPM SAS 2.5" Hard Disk Compatible 432320-001⁴; 3 x 146.8 GB 10K U320 Hard Disk Compatible 289044-001; 			

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⁴ Due to Hardware maintenance constraints: In order to fulfil the requirements of ensuring data security, information reliability and proper Mission operability, EUBAM Rafah CIS Office needs a certain amount of failover hard disks fully compatible with the servers in use:

^{1.} HP ProLiant DL380;

^{2.} HP ProLiant DL585;

^{3.} HP ProLiant ML370.

1.	2.	3.	4.	5.
Item Number	Quantity/Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	 3 x 72.8 GB 10K U320 SCSI Hard Drive 404709-001; 3 x 146.8 GB 10K U320 Hard Drive Compatible 9V2006-041; 			
	Warranty: 12 months return to vendor.			

LOT 2 - TELEPHONES⁵

1.	2.	3.	4.	5.
Item Number	Quantity/Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
1	108 Mobile Phone: GSM Handsets			
	 Band: Tri Band (800MHz, 900Mhz & 1800Mhz) Display: High resolution, min 4 lines text and numbers Language: English Memory Function: Capable of holding address book in internal memory (>100 contacts) Messaging: Support SMS 			

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After Sales Service: To be noted that After Sales service shall be available on a 24/7 Basis. The Contractor certifies that the technical service for poor quality of supplies is provided for 7 days. Irreparable or perished items within the duration (7 days) will be replaced in 15 working days.

1.	2.	3.	4.	5.
Item Number	Quantity/Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	 Call management : Auto redial, call waiting, fixed dialling numbers, voice dialling (10 < names). Phone features : clock, alarm clock, reminder. Antenna : Internal UMTS capable Ruggedised casing (option desirable) Units must be complete with AC 110V or 220V charger as required / battery 2-3 hrs talk time. Headset option Car (12v) charger option Hands free kits option User manual in English 			
	Warranty: 12 months return to vendor			

LOT 3 - RADIO COMMUNICATIONS⁶

1.	2.	3.	4.	5.
Item Number	Quantity/Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
1	3 VHF Base Stations			
	Frequency: 136.00 – 174.00 Mhz Channel capacity: 25 or > Frequency stability: +/- 2.5 PPM at standard spec temp Channel spacing: 12.5/20/25 Khz Power O/P: 25-45watts Signalling: Select 5 (European standard) Power supply: 13.2Vdc (10.8 – 15.6Vdc) negative vehicle ground + BATTERIES Operating temp.: -30 to 60 degs Sealing: Passes rain testing to IP54			
	<u>Transmitter</u> : Modulation limiting +/- 2.5Khz @ 12.5Khz, +/- 4.0Khz @ 20Khz, +/-5.0 @ 25Khz FM Hum and Noise: -, - 40 dB @ 12.5Khz , - 45 dB @ 20/25Khz			
	Receiver: Sensitivity (12dB SINAD) ETS: 0.30micro V (0.22micro V typical)			
	Adjacent channel selectivity: 80dB @25Khz, 75dB @ 20Khz, 65dB @			

After Sales Service: To be noted that After Sales service shall be available on a 24/7 Basis. The Contractor certifies that the technical service for poor quality of supplies is provided for 7 days. Irreparable or perished items within the duration (7 days) will be replaced in 15 working days.

1.	2.	3.	4.	5.
Item Number	Quantity/Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	12.5Khz Spurious rejection: 80dB @ 20/25Khz, 75dB @ 12.5Khz Rated audio: 3w internal, 7.5w & 13w External Hum and Noise: As on transmit side Encryption: Desirable that units have COTS encryption compatibility lightning protection; Antenna: Collinear broadband			
	Frequency 136 – 174 MHZ (+/-) Gain: 5-6dBi or > VSWR: < 1.5:1 Impedance: 50 ohms nominal Max power: 150 watts Antenna should be complete with RG58 cable (approx 30 mtrs), cable connectors compatible with radio and antenna connectors. Power supply 220v (110v option) Software and accessories Installations cost to be included. Warranty: 12 months return to vendor			
2	In Mobile (Vehicular) VHF Frequency: 136.00 – 174.00 Mhz Channel capacity: 25 or > Frequency stability: +/- 2.5 PPM at standard spec temp Channel spacing: 12.5/20/25 Khz Power O/P: 25-45watts Signalling: Select 5 (European standard) Power supply: 13.2Vdc (10.8 – 15.6Vdc) negative vehicle ground Operating temp.: -30 to 60 degs			

1.	2.	3.	4.	5.
Item Number	Quantity/Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	Sealing: Passes rain testing to IP54 Transmitter: Modulation limiting +/- 2.5Khz @ 12.5Khz, +/- 4.0Khz @ 20Khz, +/-5.0 @ 25Khz FM Hum and Noise: -, - 40 dB @ 12.5Khz, - 45 dB @ 20/25Khz Receiver: Sensitivity (12dB SINAD) ETS: 0.30micro V (0.22micro V typical) Adjacent channel selectivity: 80dB @25Khz, 75dB @ 20Khz, 65dB @ 12.5Khz Spurious rejection: 80dB @ 20/25Khz, 75dB @ 12.5Khz Rated audio: 3w internal, 7.5w & 13w External Hum and Noise: As on transmit side Encryption: Desirable that units have COTS encryption lightning protection; Antenna: Stainless steel whip Frequency 136 - 174 MHZ (tunable by cutting) Gain: 3dB or > VSWR: < 1.5:1 Impedance: 50 ohms nominal Max power: 50 watts Must be complete with all installation brackets, power cabling, antenna cabling, software and accessories Installation costs to be included. Warranty: 12 months return to vendor			
3	 58 Radio: Batteries Type: Li-Ion; Voltage: 7.2 V; 			

1.	2.	3.	4.	5.
Item Number	Quantity/Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	■ Capacity: minimum 1600.00 mAh;			
	■ Compatibility: Motorola GP280;			
	Warranty: 12 months return to vendor			
4	38 Radio: Portable (Handheld) UHF			
	Frequency band: 403-470 MHZChannel Capacity: 25 or >			
	Power supply: Rechargeable battery 7.5 V			
	 Battery: Average battery life @ 5/5/90 cycle; low power 11 Hrs high power 8 Hrs 			
	Additional battery; Sociling a Withstand pain tasting par MH, STD 810C/D/E and ID54.			
	 Sealing: Withstand rain testing per MIL STD 810C/D/E and IP54 Signalling: select 5 (European standard) 			
	 Transmitter: Frequency – full band split UHF 403-470 MHZ Channel spacing: 12.5/20/25 KHZ 			
	 Frequency Stability: +/- 2.25ppm at standard spec temp. Power: 1-5 watts 			
	 Modulation limiting: +/- 2.5 @ 12.5, +/-4.0 @ 20, +/-5.0 @ 25 KHZ FM Hum and Noise: -40dB typical 			
	 Receiver: Frequency, Channel spacing, Frequency stability as on Transmit side 			
	 Sensitivity (12dB SINAD) EIA : 0.25micro volts typical 			
	 Adjacent channel selectivity: 60dB @ 12.5KHZ, 70 dB @ 20/25 KHZ 			
	Spurious rejection: 70dB			
	 Rated audio: 0.5watts Hum and Noise: -40dB @ 12.5, -50 @ 20/25KHZ 			
	■ Encryption : Desirable that units have COTS encryption			
	 User manuals MUST include English. 			

1.	2.	3.	4.	5.
Item Number	Quantity/Specifications Required	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
	 Warranty: 12 months return to vendor 			